

# *PRICE AND GESS*

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## **DRAWINGS (11 SHEETS)**

**Inventor(s):** Kazuhiro Yamada et al.

**Title:** GRAY-SCALE IMAGE DISPLAY DEVICE  
THAT CAN REDUCE POWER  
CONSUMPTION WHEN WRITING DATA

**Attorney's**  
**Docket No.:** NAK1-BO60

**EXPRESS MAIL LABEL NO. EL 852659002 US**

**DATE OF DEPOSIT: April 23, 2001**

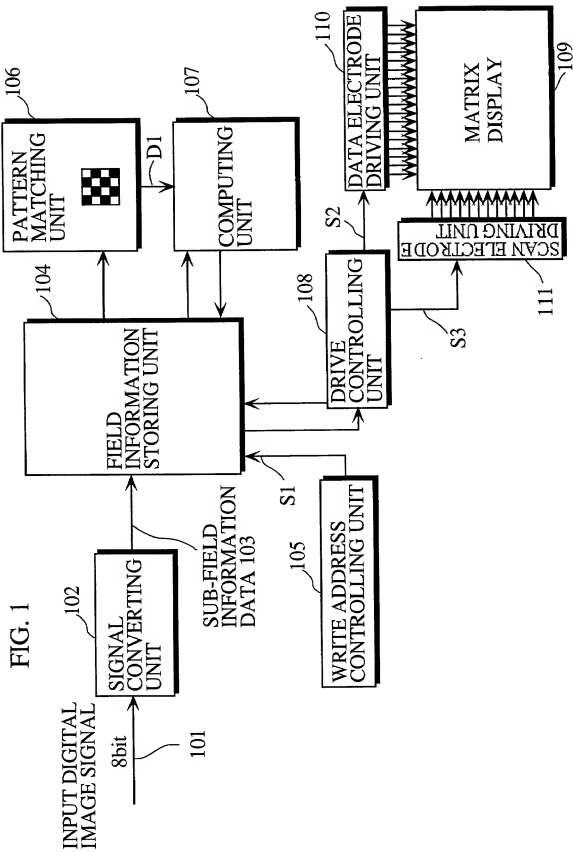


FIG. 2

SUB-FIELD

	SF1 (128)	SF2 (64)	SF3 (32)	SF4 (16)	SF5 (8)	SF6 (4)	SF7 (2)	SF8 (1)	SF9 (0.5)
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1	0
2	0	0	0	0	0	0	1	0	0
3	0	0	0	0	0	0	1	1	0
4	0	0	0	0	0	1	0	0	0
5	0	0	0	0	0	1	0	1	0
·	·	·	·	·	·	·	·	·	·
65	0	1	0	0	0	0	0	1	0
·	·	·	·	·	·	·	·	·	·
253	1	1	1	1	1	1	0	1	0
254	1	1	1	1	1	1	1	0	0
255	1	1	1	1	1	1	1	1	0

8-BIT INPUT DIGITAL IMAGE SIGNAL

0 . . . OFF  
1 . . . ON

FIG. 3

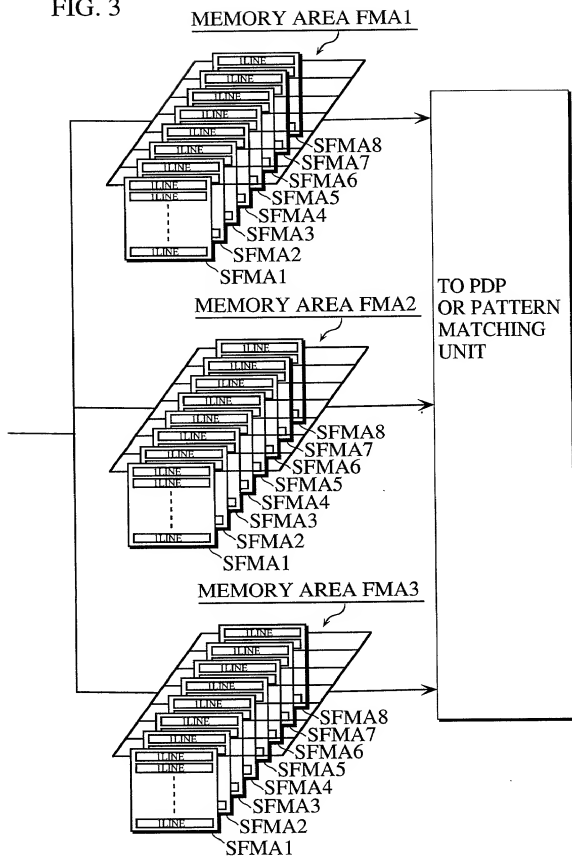


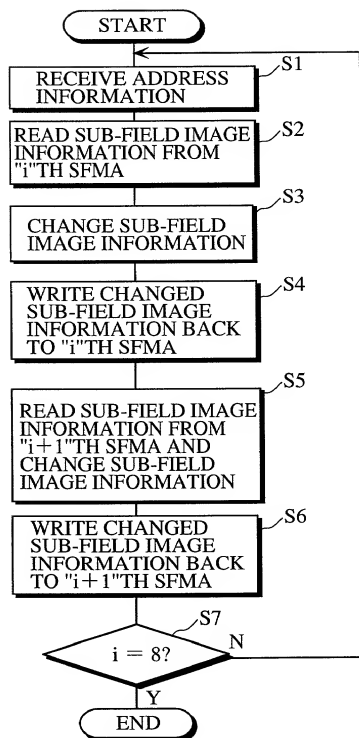
FIG. 4A

0	1	0	1	0	1
1	0	1	0	1	0
0	1	0	1	0	1
1	0	1	0	1	0
0	1	0	1	0	1
1	0	1	0	1	0

FIG. 4B

1	1	1	1	1	1
0	0	0	0	0	0
1	1	1	1	1	1
0	0	0	0	0	0
1	1	1	1	1	1
0	0	0	0	0	0

FIG. 5



0940667.042301

FIG. 6A

FIG. 6B

FIG. 6C

SF3 SUB-FIELD IMAGE

[illegible]
$$*=0 \text{ OR } 1$$
 CHANGE

SF3 CHANGED  
SUB-FIELD IMAGE

[illegible]

LUMINANCE WEIGHT = "32"

SF4 CHANGED  
SUB-FIELD IMAGE

[illegible]

**\*\*=0 OR 1 LUMINANCE WEIGHT="16"**

FIG. 7A

[illegible]

**\*=0 OR 1**

FIG. 7B

CHANGE IS PROHIBITED

CHANGE



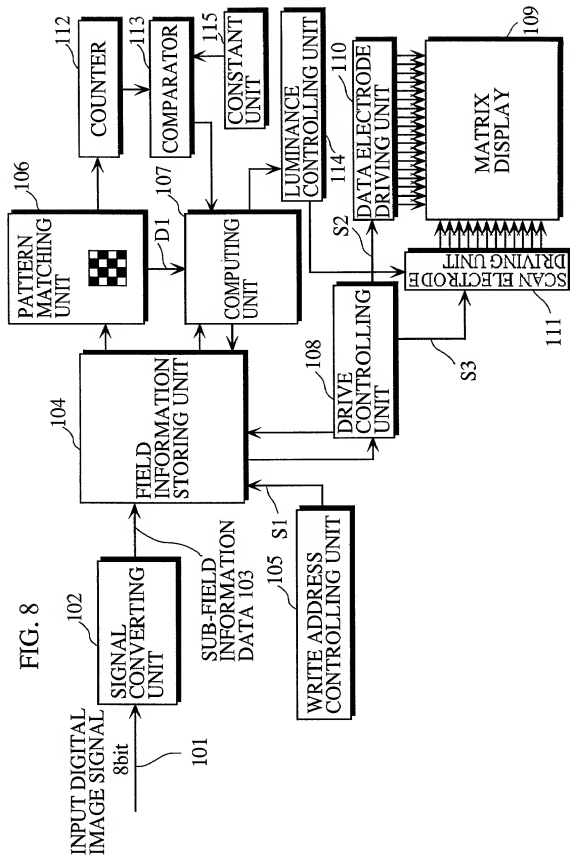
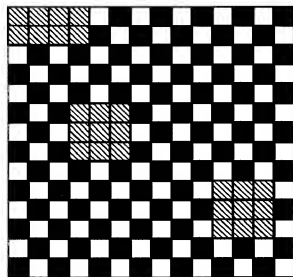


FIG. 9A

PATTERN IN SF3 WITH  
LUMINANCE WEIGHT OF "32"  
(MORE THAN HALF OF  
IMAGE IS CHECKERED)

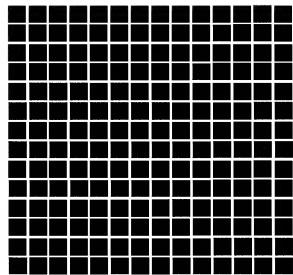


BEFORE CHANGE

■ : ON  
□ : OFF

FIG. 9B

DISPLAY SOLID IMAGE WITH  
LUMINANCE WEIGHT OF SF3  
BEING DECREASED TO "16"



AFTER CHANGE

■ : ON

FIG. 10

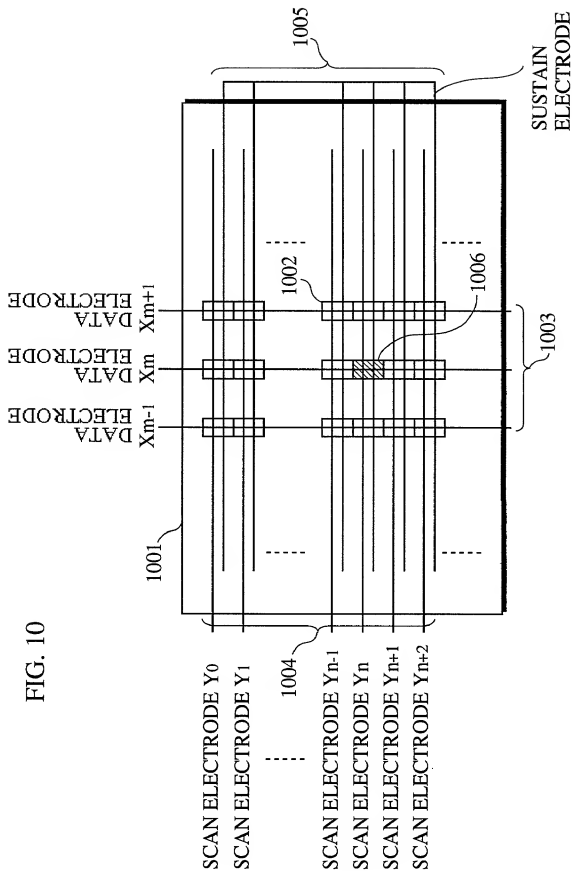
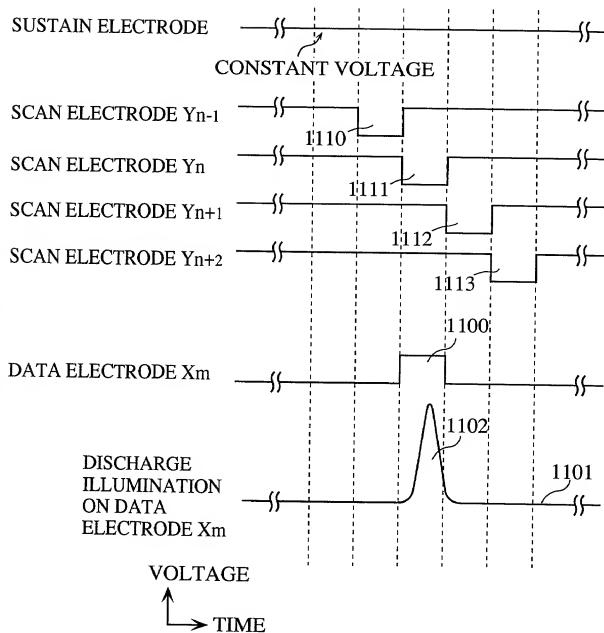


FIG. 11



- 1100 DATA PULSE
- 1101 ILLUMINATION WAVEFORM ON DATA ELECTRODE  $X_m$
- 1102 DISCHARGE ILLUMINATION WAVEFORM IN CELLS WHERE INFORMATION SHOULD BE WRITTEN
- 1110~1113 SCAN PULSE